CalFed Water Quality Actions

- 1. Agricultural Drainage
- 2. Urban & Industrial Runoff

Proposed Actions

- incentives and/or enforcement of existing regulations
- incentives for pesticide users to increase implementation of BMPs, including IPM

Four Questions

- What is the current position of the industry in relation to BMPs and IPM?
- Which parameters of concern will BMPs and IPM affect? By how much?
- What types of BMPs and IPM do we recommend?
- Are there more effective alternatives?

Industry Position - BMPs & IPM

- Fully supportive of BMPs & IPM Individual companies
- Western Crop Protection Association
- American Crop Protection Assoc.

Part of a comprehensive approach to chemical management Economical and environmentally sound farm management Minimize adverse environmental effects Maximize beneficial effects of pesticides Maximize beneficial effects

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How Does Industry Support?



- Novartis Crop Protection
- DowElanco
- CA Agricultural Production Consultants Association
- CA Dept. of Pesticide Regulation
- Makhteshim-Agan

"Best Management Practices for Protecting Water Quality in California"

- diazinon, chlorpyrifos
- dormant orchard sprays
- 15,000 copies printed
- 12,000 distributed
 - all PCAs in tree market
 - seminars & one-on-one meetings
- 1500 tree growers

"IPM - The Quiet Evolution"



- Blue Anchor
- CAPCA
- CA Assoc. of Nurserymen
- CA Chamber of Commerce
- CA Cotton Growers
- CA Dept. of Food & Ag
- CA League of Food Processors

- CA Seed Assoc.
- CA Strawberry Commission
- Nisei Farmers League
- Processed Tomato Foundation
- Sun-Maid Growers of CA
- U.S. Hop Industry
- Western Growers Assoc.

"BMP Research & Education"

Proposal to CalFed

• Early outreach

• Train the trainer / influencer

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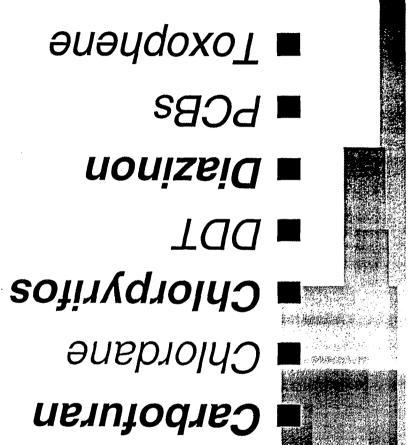
• Educational materials

Public / User outreach

■ Farm Advisor Training Seminar UC Statewide IPM Project

- California Cotton Manager cotton
 - Predator snails citrus
 - Navel Orangeworm almonds
 - IPM Programs
 - Orchard Dormant Spray Program
- Rice Pesticide Management Program
 - BMP Programs

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Tarameters of Concern

Our Concern

- Identification of these parameters was not a comprehensive scientific process
- not a specific chemical problem
- It's an agronomic practice / management problem

■ Chasing our tail

• ban them & switch to???

• switched to diazinon & chlorpyrifos

• Lost parathion

Dormant Spray

Not Diazinon / Chlorpyrifos

imoldory sthe problem?

Realistic expectations What is the real issue? biological / environmental social / political How do we measure risk?

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■ How do we measure success?

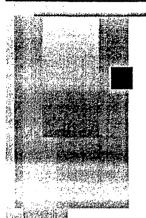
 each crop is different Pon't mandate specific BMPs bailqqa & sizad - a & A bnim naqO

each geographic location is different

farming techniques are different

■ Don't tie the grower's hands

What is most effective?



Phased approach

- early outreach w/ current knowledge
- R & D program
- monitoring and adapting
- continuous improvement
- outreach
 - influencers
 - users

Build awareness

• what is the problem?

what can and should be done

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environment - a bottom line issue

• economics

Summar

Industry Supports BMPs & IPM

Somprehensive management plan comprehensive management plan

Research & Development freach and the search of the second of the